## **DEPARTMENT OF TRANSPORTATION**

Research and Special Programs Administration

49 CFR Parts 171, 172, 173, 174, 176, 177, 178, and 179

[Docket No. HM-115, Amdt. Nos. 171-74, 172-82, 179-166, 174-43, 176-17, 177-80, 178-77, and 179-32]

Cryogenic Liquids; Final Rule Corrections and Revisions; Delay of Effective Date

ACIENCY: Materials Transportation Bureau (MTB), Research and Special Programs Administration, Department of Transportation.

ACTION: Final rule, corrections and revisions.

SUMMARY: This document makes corrections and revisions to a final rule, Docket HM-115, in Federal Register Document 83-15211, beginning on page 27674 in the issue of Thursday, June 16, 1983, which amended the Hazardous Materials Regulations (49 CFR Parts 171-179) by establishing requirements for the transportation of specifically identified cryogenic liquids.

EFFECTIVE DATE: The effective date, published in the Federal Register for Amendment Nos. 171-74, et seq. (48 FR 27674) on June 18, 1983, is changed to read "October 1, 1984". The corrections and revisions in this document are also effective October 1, 1984.

FOR FURTHER INFORMATION CONTACT: Hattie L. Mitchell, Office of Hazardous Materials Regulation, 400 Seventh Street, SW., Washington, D.C. 20590, (202) 426–2075.

SUPPLEMENTARY INFORMATION: On June 16, 1983, MTB published a final rule in the Federal Register which amended the Hazardous Materials Regulations to establish requirements for the transportation of certain cryogenic liquids and also authorize the transportation of certain gases that are transported in cold liquid form. The final rule carried an effective date of January 1. 1984, with voluntary compliance authorized on and after September 15, 1983. A 90-day period for filing petitions for reconsideration was provided in place of the 30-day period specified by 49 CFR 106.35.

MTB received 18 petitions. Several commenters requested reconsideration of the effective date, proper shipping names and the identification numbers. MTB believes that these issues warrant immediate handling prior to publication of the 1983 edition of Title 49, Code of Federal Regulations, Parts 100–199. Other issues raised in these and other

petitions will be handled in a later publication of the Federal Register in the near future.

In the final rule, MTB added several new entries to the Hazardous Material, Table in § 172.101. The new cryogenic liquid descriptions contain the descriptor "cryogenic liquid" as part of the proper shipping name. The descriptions for other gases, such as carbon dioxide, nitrous oxide, and hydrogen chloride, which are transported in cold liquid form, contain the descriptor "liquid (refrigerated)". The identification numbers for these new descriptions are preceded by an "NA" prefix.

Unlike the international system for describing gases, the compressed gas descriptions for the atmospheric gases and helium in 49 CFR 172.101 do not include the word "compressed" in the proper shipping name. A final rule issued under HM-126A (45 FR 34560, May 22. 1980) listed the identification numbers for these compressed gases preceded by a "UN" prefix. In the final rule under HM-115, the prefix was changed from "UN" to "NA" because the descriptions in 49 CFR 172.101 are not exactly the same as the international descriptions.

The changes made under HM-115 are consistent with the premise under which the numerical identification system was adopted under HM-126A. In the NPRM under HM-126A [44 FR 32976; June 7. 1979], MTB stated that identification numbers would be preceded by "UN" if the description preceding it is exactly the same or sufficiently similar to the international description and, if the description in § 172.101 is significantly different but addresses the same material as a UN entry, it would be given the same number but preceded by "NA". The term "significantly different" was intended to cover differences such as the omission of words appearing in an international description or the addition of required words not appearing in the international description. The term "exactly the same or significantly similar" was intended to cover differencies such as the singular and plural forms in a description.

Six commenters objected to the "cryogenic liquid" and the "liquid (refrigerated)" descriptors used in the final rule. Four of these commenters supported the international descriptor "refrigerated liquid". Two other commenters objected to the use of "liquid (refrigerated)" and "refrigerated liquid" in the shipping descriptions for the cold form gases. One of these commenters indicated a preference for the descriptor "cold" or some other

appropriate term to describe these gases.

Commenters also objected to the change to the "NA" prefix for compressed gases. In its comments, the Compressed Gas Association stated, in part:

Without Administrative Procedure Act notice, HM-115 revised column (3A) in Section 172.101 by assigning to these gases a new identification number prefix NA, to replace the UN prefix sasigned in DOT Docket HM-126A. May 22, 1980 (Display of Hazardous Materials by Identification Numbers: Improved Emergency Response Final Rule). If DOT wishes to revise the identification number prefix for the above listed gases (to conflict with HM-126A), it should publish a separate Notice of Proposed Rulemaking, giving the public an opportunity to comment

After further consideration. MTB agrees with commenters that the international descriptions should be used when possible. Therefore. MTB is revising the proper shipping names for the cryogenic liquids and cold form gases to include the international descriptor, "refrigerated liquid", and the associated "UN" prefix. The cryogenic liquid descriptions are being specifically named (in italics) in § 172.101 to distinguish these gases from the cold form gases

For compressed gases, MTB agrees with CGA that a change in the prefix should be handled by a proposed rule. Therefore, MTB is revising the final rule to provide for continued use of the descriptions as presently found in 49 CFR 172.101 and also for the optional use of the international descriptions. Shippers are advised that shipping descriptions without the word "compressed" are not acceptable for transport of gases in international commerce.

The six commenters who addressed the effective date requested extension periods from one to two years. Most of the commenters maintained that additional time was needed to exhaust existing stocks of shipping documents and product labels and to permit remarking of packagings to conform with the new shipping descriptions and prefix markings. Since fewer changes will be required for shipping documents and package markings, MTB believes that the extension of the effective date until October 1, 1984, is appropriate. Corresponding changes are made to other dates appearing in the final rule.

This document does not impose additional requirements and has the net result of reducing costs imposed under the final rule. A regulatory evaluation and environmental assessment of the

final rule is available for review in the docket. The regulatory evaluation will not be modified to include the changes made under this document.

he consideration of the foregoing, the final rule published on June 16, 1963, in

Federal Register Document 83-15211. beginning on page 27874, is corrected and amended as follows:

1. On page 27683, second column. fourth puragraph, in the penultimate

line, "§ 173.71" is corrected to read "§ 171.11".

2. On page 27691, in § 171.101, in columns 2 and 3A of the Hazardous Materials Table, entries are revised to read as follows:

Present		Revise ID		
	GA	(2)		
Hezardous materials descriptors and proper shipping names		Hazarda.is materials descriptions and proper phisping market		
Apriles			280 TO 00	
Mrg20	NATORE	Argus ar Argon, compressed	UN1039	
thane	NA1035	Ethere or Ethane, compressed	UN 103	
there	NA1962	Ethylene or Ethylene, compressed	UN1046	
Helium	PSA 10-46	Phalaum or Helium, compressed	UN1041	
Hydrogen,	NA1049	Hydrogen or Hydrogen, compressed	UNTOS	
Hydrogen chlonde (RC-5000/2270)	NA1050	Hydrogen chlonde (RO-5000/2270) or Hydrogen chlonde.	Districts:	
Hydrogen chlonde (HC)-5000/22/01		5000-72770)	1151467	
Methana	RA1971	Methere or Methere, compressed	UN197	
Neon	NA1065	Neon or Neon, compressed	UN106	
Neon	MA 1066	Mitrogen or Mitrogen, compressed	UNIO	
Nitrogen	MA1070	Nithous made or Mitrous exide, compressed		
Oxygen	MA1072	Oxygen or Oxygen, compressed	UP\$187	
Oxygen				
Argos, cryogonic lipsid	NA1951	Argon, sufrigorated basid (cryogenic liquid)	UN218	
Carbon diswide, figuid (verigerating)	NA2187	Carbon dioxide, refrigerated liquid	UN216	
Ethane, liquid (retoporated)		Ethene, spingeruled liquid	UNTSE	
Ethane Propene moture, liquid (vehigeralest).	NA1961	Ethene-Propere relative, refrigerated liquid	UM190	
Ethylene, cryogenic liquid	RA1038	Ethylene, refrigerated liquid (cryogenic liquid)	UNING	
Heilium, cryogenic liquid	NA 1963	Holism, ratingerated liquid (cryogenic liquid)	Merse	
Hydrogen, cycgenic liquid.	NA1965	Hydrogen, religerated Repid (cryogenic liquid)	196216	
Hydrogen chloride, liquid (refrigerated) (RQ-5000/2270)	NAZ186	Hydrogen chloride, refrigerated liquid IRC-5000/2179	UN 197	
Methane, cryogenic liquid	NA1972	Metherne, retrigorated liquid (cryogenic liquid)	UN157	
Natural gas, cryogenic liquid	NA1972	Makeri gas, satigerated liquid (with high metheric content) (cryogeric liquid)		
Neon, cryogenic liquid	NA1913	Neon, refrigorated legid (cryogenic liquid)	UN197	
Nikrogen, pryogenic liquid	<b>NX19</b> 77	Mirogen, refrigerated liquid (cryogenic liquid)	UN220	
Nicrous crade, liquid (retrigorated)	NA2291	Nitrous midds, subgersted liquid	•	
Oxygen, cryogenic liquid	NA1073	Oxygen, refrigerated liquid (eryogenic liquid)	UN IU	

3 References in Parts 173, 174, 178 and 179 to the cold form gas names which appear in the June 18, 1983 document, pages 27690-27713, are changed as listed below under "present" to read as shown in the "Revised to" column.

Present	Revise to		
Carbon dicoide, liquid (reingerated)	Ethane, retrajerated liquid. Ethane-Propaine monture, retrigerated liquid. Hydrogen chloride, retrigerated liquid ( <i>RQ</i> -5000/2270).		

- 4. On page 27691, in § 172.203, paragraph (g)(3) is corrected to read "The shipping paper for each Class DOT-113 tank car containing, a flammable gas must contain an appropriate notation, such as "DOT-113A," and the statement "Do Not Hump or Cut Off Car While in Motion."
- 5. On page 27692, in § 173.11, paragraph (c)(1), "July 1 and August 31, 1984" is revised to read "January 1 and February 28, 1985"; in paragraph (c)(2), second line, the word "even" is revised to read "odd", and in the last line, "1984" is revised to read "1985".
  - 6. On page 27692, in § 173.31,

paragraph (a)(8), fourth line "January 1, 1984" is revised to read "October 1, 1984"; in the seventeenth line, "December 31, 1983" is revised to read "September 30, 1984", and in the last line, "January 1, 1984" is revised to read "October 1, 1984".

7. On page 27693, in § 173.31(c)(13)(iv), in the penultimate line, "pressure relief value" is corrected to read "pressure relief valve".

8. On page 27693, in § 173.33(b), seventh line, "§ 178.340," is corrected to immediately precede "178.341", and in the last line, "§ 178-342-5" is corrected to read "§ 178.342-5"; in paragraph (b)(2), fourth line, "January 1, 1984" is

revised to read "October 1, 1984"; in the nineteenth line, "December 1, 1983" is revised to read "September 30, 1984"; in the last line, "January 1, 1984" is revised to read "October 1, 1984"; in paragraph (b)[3], fourth line, "January 1, 1984" is revised to read "October 1, 1984", and in the last line "December 31, 1983" is revised to read "September 30, 1984"

9. On page 27694, the Table in § 173.33(d)(2) is corrected to read as follows:

Specification	Ratio 1	
MC-330, MC-331	1 % 1 %	

'Ratio of test pressure to the design pressure (maxiumum allowable working pressure or rerated pressure) of the tank.

- 10. On page 27694 in § 173.314(c), in the fifth line, "paragraphs (b) and (h)" is corrected to read "paragraphs (b) through (h)".
- 11. On page 27695, in the Table in § 173.315(a), the entry for "Hydrogen chloride, liquid (refrigerated)" is corrected to read as follows:

	Medinur	n permitted filling density	Specification container required		
Kind of ges	Percent by weight (see note 1)	Percent by volume (see per (f) of this section)	Type (see note 2)	Minimum design preseure (peig)	
tydrogen chloride, relitger	103.0	See Note 7	MC-331, MC-338	100; see Note 11	
manel require	91 8 96.7		<b>s</b> b	200, see Note 11 450; see Note 11	

- 12. On page 27696, in § 173.318(b)(1)(iii), fifth line, "paragraph 4.3.4" is corrected to read "paragraph 5.3.4.4."
- 13. On page 27697, in § 173.318(b)(2)(iii), second line, "dics" is corrected to read "discs".
- 14. On page 27697, in § 173.318(b)(5)(ii), eighth line, "valve" is corrected to read "value".
- 15. On page 27698, the second entry in the Table in \$ 173.318(f)(3) is corrected to read as follows:

## PRESSURE CONTROL VALVE SETTING OR RELIEF VALVE SETTING

Maximum set-to- decharge pressure troipi	Maximum permitted filling density (percent by weight)				
	Carbon monoxide	Ethylone	Hydrogen	Methane or natural gas	
15	75.0		6.5	40.5	

- 18. On page 27698, in \$ 173.318(g)(2)(i), the formula is corrected to read "OWTT = (MRHT--24)/2".
- 17. On page 27699, in \$ 174.83(b), the beginning of the sentence is corrected to read "Any car placarded...."
- 18. On page 27699, in § 176.78(h), second line, "vesel" is corrected to read "vessel".
- 19. On page 27699, in Part 177, the Table of Sections, the section heading "177.86 Training" is corrected to read "177.818 Training".
- 20. On page 27700, in § 177.818(a). second line. "vehcile" is corrected to read "vehicle".
- 21. On page 27700, in § 177.824(e)(2). seventh line, "§ 173.338–16(a)" is corrected to read "§ 178.338–16(a)".
- 22. On page 27700, in § 177.828, paragraph (c)(1), "1984" is revised to read "1985"; in paragraph (c)(2), the word "even" is revised to read "odd", and in the last line "1984" is revised to read "1985".

23. On page 27703, in the Table in § 178.338-1(e), the entry for "Aluminum" is corrected to read as follows:

Type metal	Jacket evacuated		Jacket not evacuated	
	Gauge	Inches	Gauge	Inches
Aluminum		0.125		9.100

- 24. On page 27704, in § 178.338-9(b)(2), in the penultimate line. "§ 178.318(b)(9)" is corrected to read "§ 178.338-18(b)(9)".
- 25. On page 27709, in § 179.400-8(c), the formula is corrected to read "t =  $[PL(3 + \sqrt{(L/r))}]/(8SE)$ ".

(49 U.S.C. 1803, 1804, 1808, 49 CFR 1.53 and App. A. to Part 1)

Note.—The Materials Transportation Bureau has determined that this document 1) will not result in a "major rule" under the terms of Executive Order 12291, 2) is not a significant regulation under DOT's regulatory policy and procedures (44 FR 11034), and 3) does not require an environmental impact statement under the National Environmental Policy Act (49 U.S.C. 4321 et seq.). The original regulatory evaluation and environmental assessment is available for review in the docket.

Issued in Washington, D.C., on October 25, 1983.

## L. D. Sanaman,

Director, Materials Transportation Bureau. [FR Doc. 83–29447 Filed 10-31-83: 645 am] BRILING CODE 4910-80-86